FIG. 1

```
(X,Y) = 2Dtransform (int x,y)
{
    X = 2*y + 3;
    Y = 5*x + 2*y + 1;
}
```
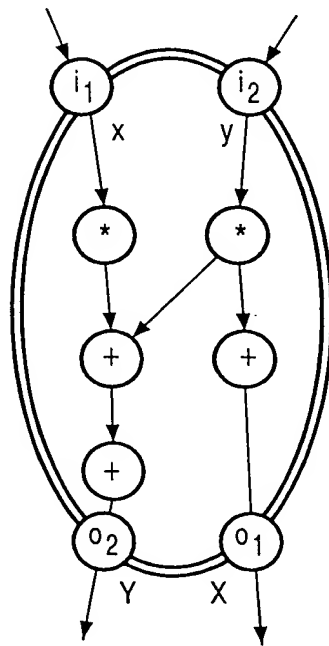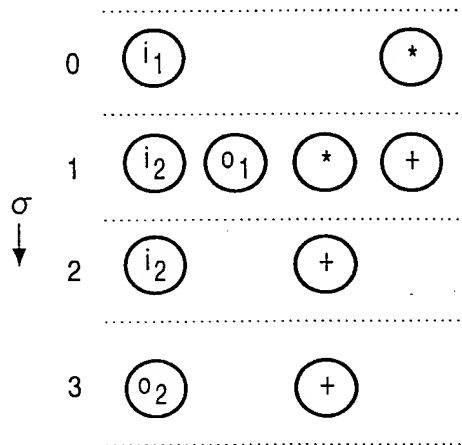
FIG. 2

FIG. 3a

$\sigma(i_1) = 0$ $\sigma(i_2) = 1$
$\sigma(o_1) = 1$ $\sigma(o_2) = 3$
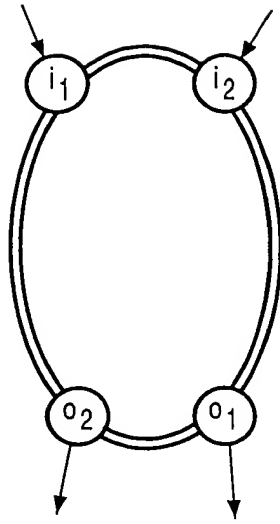
FIG. 3b

FIG. 4a

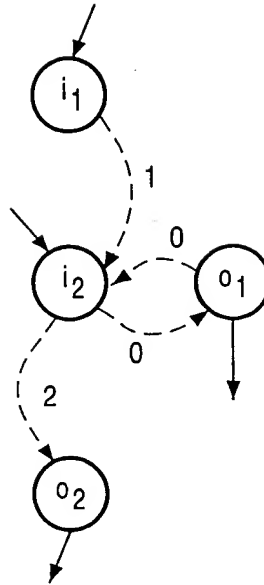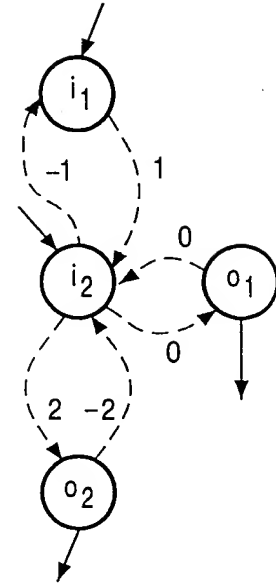FIG. 4b

FIG. 4c

```
for (p=0 ; p<P_MAX ; p++) {
    for (q=0 ; q<Q_MAX ; q++) {
        x = p + q ;
        y = p -q -2 ;
        (X, Y) = 2Dtransform (x, y) ;
        cond = ( ( X^2 + Y^2 - 100 ) < 0 )
    }
}
```

FIG. 5

FIG. 6a

FIG. 6b